

Title (en)  
CATALYST DESIGN FOR HEAVY-DUTY DIESEL COMBUSTION ENGINES

Title (de)  
KATALYSATORDESIGN FÜR SCHWERLAST-DIESELVERBRENNUNGSMOTOREN

Title (fr)  
CONCEPTION DE CATALYSEURS POUR MOTEURS À COMBUSTION DIESEL DE GRANDE PUISSANCE

Publication  
**EP 3060335 A4 20170719 (EN)**

Application  
**EP 14856227 A 20141022**

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• US 2014061804 W 20141022

Abstract (en)  
[origin: WO2015061477A1] Disclosed are washcoats, coated substrates formed from such washcoats, and catalytic converters for use in diesel applications, such as heavy duty diesel applications. Methods of preparing the coated substrates are also disclosed.

IPC 8 full level  
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CPC (source: EP KR US)  
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Citation (search report)  
• [E] EP 2992955 A1 20160309 - CATALER CORP [JP], et al  
• [X] US 2002048542 A1 20020425 - DEEBA MICHEL [US], et al  
• [XY] CN 101362091 A 20090211 - BYD CO LTD [CN]  
• [A] JP H0515778 A 19930126 - MITSUBISHI HEAVY IND LTD  
• [Y] US 2011143933 A1 20110616 - YIN QINGHUA [US], et al  
• [YD] US 2011143915 A1 20110616 - YIN QINGHUA [US], et al  
• See also references of WO 2015061477A1

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